

ZHUKOVSKIY, L.I., kand.med.nauk

Excretion by the stomach of neutral red dye in gastric achylia.  
Vrach.delo no.11:10-16 N '62. (MIRA 16:2)

1. Terapevticheskaya klinika (zav. - akademik AN UkrSSR, deyst-  
vitel'nyy chlen AMN SSSR, prof. V.N. Ivanov [deceased]) Kiyev-  
skogo meditsinskogo instituta.  
(STOMACH---SECRECTIONS) (NEUTRAL RED)

MIKHNEV, A.L., prof., red.; DUPLENKO, K.F., dots., red.; ZHUKOVSKIY,  
L.I., red.; ZAPOL'SKAYA, L.A., tekhn. red.

[Current problems of internal medicine and their elaboration  
by the schools of N.D.Strazhesko] Aktual'nye problemy vnut-  
rennei meditsiny i razrabotka ikh shkoloi N.D.Strazhesko.  
Pod red. A.L.Mikhneva. i K.F.Duplenko. Kiev, Gosmedizdat  
USSR, 1963. 298 p. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy  
meditsiny imeni akademika N.D.Strazhesko.  
(MEDICINE, INTERNAL)

ZHUKOVSKIY, L.I. (Kiyev)

Clinical aspects of hemorrhagic thrombocythemia. Vrach.delo no.10:  
141-142 0 '62. (MIRA 15:10)

1. Terapevticheskoye otdeleniye klinicheskoy bol'nitsy, Kiyev.  
(BLOOD PLATELETS) (HEMOPHILIA)

ZHUKOVSKIY, L.I. (Kiyev)

Important Russian priority in the field of cardiology, from the history of the description of the clinical picture and development of intravital diagnosis in myocardial infarction. Klin.med. no.12: 112-114 '61. (MIRA 15:9)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny imeni akad. N.D. Strazhesko (dir. - zasluzheny deyatel' nauki prof. A.L. Mikhnev) i Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza imeni akad. F.G. Yanovskogo (dir. - dotsent A.S. Mamolat).  
(HEART--INFARCTION)

ZHUKOVSKIY, L.I.; DUPLINKO, Yu.K.

Diagnostic significance of Waldman's cup test in rheumatic heart disease. Sov. med. 24 no.4:140-143 Ap '60. (MIRA 13:8)

1. Iz terapevticheskogo otdeleniya (zav. L.I. Zhukovskiy) Vasil'kovskoy rayonnoy bol'nitsy (glavnyy vrach B.I. Densiyuk) Kiyevskoy oblasti.  
(RHEUMATIC HEART DISEASE) (MEDICAL TESTS)

ZHUKOVSKIY, L. I.

Cand Med Sci - (diss) "Chromoscopy of the stomach and significance of this method in several gastric disorders." Khar'kov, 1961. 16 pp; (Khar'kov State Medical Inst); 350 copies; free; (KL, 5-61 sup, 202)

ZHUKOVSKIY, L.I.

Influence of atropine on the excretion of neutral red dye by the stomach. Vrach. delo no. 3:36-41 Mr '61. (MIRA 14:4)

1. Kafedra gosital'noy terapevticheskoy kliniki (zav. - akademik AN USSR, deystvitel'nyy ohlen AMN SSSR, prof. V.N. Ivanov)  
Kiyevskogo meditsinskogo instituta.  
(ATROPINE) (STOMACH)

ZHUKOVSKIY, L.I.

ACTH, zinc phosphate, and cortisone in the over-all treatment of the urethro-oculo-synovial syndrome of Reiter. Kaz.med.zhur. no.5:108-109 S-O '60. (MIRA 13:11)

1. Vasil'kovskaya raybol'nitsa, Kiyevskoy oblasti.  
(ACTH)  
(ZINC PHOSPHATES)  
(CORTISONE)  
(REITER'S DISEASE)



ZHUKOVSKIY, L.I.; KLEBANOV, B.M.

Side effects of convallatoxin. Vrach.delo no.10:120-121 0 '60.

(MIRA 13:11)

1. Terapevticheskoye otdeleniye (zav. - L.I.Zhukovskiy) Vasil'kovskoy  
rayonnoy bol'nitsy Kiyevskoy oblasti.  
(CONVALLATOXIN)

ZHUKOVSKIY, L.I.

Gastrointestinal syndrome in croupous pneumonia. Vrach.delo  
no.2:193 F '60. (MIRA 13:6)

1. Terapevticheskoye otdeleniye (sav. - L.I. Zhukovskiy)  
Vasil'kovskoy rayonnoy bol'nitsy Kiyevskoy oblasti.  
(PNEUMONIA)

ZHUKOVSKIY, L.I.

Novocaine therapy in the compound treatment of peptic ulcer  
and chronic gastritis. Vrach.delo no.3:307-309 Mr '59.  
(MIRA 12:6)

1. Terapevticheskoye oddeleniye (zav. - L.I.Zhukovskiy) Vasil'-  
kovskoy rayonnoy bol'nitsy Kiyevskoy oblasti.  
(NOVOCAINE) (PEPTIC ULCER) (STOMACH--DISEASES)

ZHUKOVSKIY, L.I. [ZHUKOVSK'YI, L.I.]

Excretory function of the stomach with relation to neutral red in conditioned reflex excitation of gastric secretion [with summary in English] Fiziol.zhur. [Ukr.] 4 no.3:363-368 My-Je '58 (MIRA 11:7)

1. Kiivs'kiy medichniy institut im. akad.O.O. Hogomol'tsya, kafedra gosital'noi terapevtichnoi kliniki,  
(STOMACH--SECRETIONS)  
(CONDITIONED RESPONSES)

ZHUKOVSKIY, L.I.

Excretion of neutral red dye from the stomach following inhibition of gastric secretion by concentrated sugar solutions. Vrach, delo no. 8: 821-823 Ag '58 (MIRA 11:8)

1. Kafedra gosptal'noy terapevticheskoy kliniki (nauk. akademik AN USSR, deyatvitel'nyy chlen AMN SSSR, prof. V.N. Ivanov) Kiyevskogo meditsinskogo instituta.  
(STOMACH)

ZHUKOVSKIIY, L.I.

Gastric excretory of neutral red dye as affected by various secretory stimulants [with summary in English]. *Fiziol.zhur.* [Ukr] 3 no.4: 60-66 J1-Ag '57. (MLHA 10:9)

1. Kiivs'kiy medichniy institut im. akad. O.O.Bogomol'tsya, gosptal'na terapevtichna klinika.  
(STOMACH--SECRETIONS)

USSR/Human and Animal Physiology - Digestion.

T-7

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31809

Author : Zhukovskiy, L.I.

Inst : -

Title : Excretory Function of the Stomach in Relation to Neutral Red Dye with Various Stimulators of the Secretory Process.

Orig Pub : Fiziol. zh. 1957, 3, No 4, 60-66.

Abstract : By using secretion stimulators of various strength (weak - water, average - 5% solution of alcohol and strong - meat broth) on various days, excretion by the stomach of a neutral red dye of (I) was determined in each of 26 patients. The most intensive and rapidly-progressive excretion of I was obtained with a secretion of gastric juice in meat broth. The least - in weak stimulus. Intermediate amount - in alcohol. Secretory and excretory processes in the stomach are closely connected with each other.

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L 3778-66 EWT(m)/EWA(m)-2 IJP(c) G5

ACCESSION NR: AT5007965

S/0000/64/000/000/0332/0936

AUTHOR: Vodop'yanov, F. A.; Zhukovskiy, L. S.; Zalmanzon, V. B.; Ivanov, Yu. S.;  
Izergina, Ye. V.; Kuz'min, A. A.; Prokop'yev, A. I.; Temkin, A. S.; Rubchinskiy,  
S. H.

TITLE: System for the generation of the accelerating field of a 70-Gev proton  
synchrotron 19

SOURCE: International Conference on High Energy Accelerators, Dubna, 1963.  
Trudy. Moscow, Atomizdat, 1964, 932-936

TOPIC TAGS: high energy accelerator, synchrotron, particle beam, magnetic field

ABSTRACT: After the development of a high-precision system of frequency control of the accelerating field of the proton 50-60 Gev synchrotron with critical energy compensation (Mints, A. L., et al., Proc. International Conference on High Energy Accelerators and Instruments, CERN 1959), it was decided to achieve an alternative accelerator with transition through the critical energy, which makes it possible to increase the energy to 70 Gev. In this modification of the accelerator serious difficulties are encountered with the realization of a system for generating an accelerating field with frequency control only according to the *H*-program. Therefore,

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L 3778-66

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it was decided to achieve a system with twin frequency control: rough, according to the  $H$ -program, and precise, according to the information on the radial and phase position of the accelerated particle beam. The present report discusses the principal characteristics governing the achievement of a programmed FM-generator, a system of frequency control according to information of the position of the accelerated particle bunches, and accelerator installation. The programmed FM-generator consists of the usual elements: transducer of the derived magnetic field strength (inductive coil in the gap of the measuring electromagnet), electronic switch, tube integrator, modulator, FM-oscillator, phase manipulator, amplitude modulator of accelerating voltage, amplifier-distributor, and a system of cable contacts. To obtain energy increase per revolution of  $\Delta E = 166$  KeV for a rate of change of magnetic field strength of  $H = 550$  oersteds/second and  $\phi_g = 30^\circ$ , provision is made for the application of 53 accelerator stations with rated input of 7 kilovolts and 6 kilowatts power. Provisions are also made for the short-duration increase of this voltage, 1.8 times up to the time of beam bunching (around 15 microseconds), and its slow decrease to about 2 times less toward the end of the acceleration cycle with the aim of preserving constant equilibrium phase during the fall in the magnetic field growth rate. The system of frequency control of the accelerating field according to the information on the accelerated particle beam position is similar in

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L 3178-66

ACCESSION NR: AT5007965

principle of operation to a system described by Yu. S. Ivanov and A. A. Kuz'min  
(*Pribory i tekhnika eksperimenta*, No. 4, 106, (1962)), which was intended to stabilize the position of the center of gravity of the beam according to radius and phase. Orig. art. has: 1 figure;

ASSOCIATION: Radiotekhnicheskiy Institut AN SSSR (Radio Engineering Institute AN SSSR)

SUBMITTED: 26May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 001

Card 3/3

ZHUKOVSKIY, L.V., inzh.

Unloader for loose materials. Avt.dor. 24 no.6:3 of cover Ja '61.  
MIRA 14,7)

(Loading and unloading)

TIMAKOV, V.D., prof.; ZHUKOVSKIY, M.

Medical science in the next seven years. Okhr. izuda i sovs.  
strakh. no.4:21-25 Ap '59. (MIRA 12:8)

1.Vitse-prezident AMN SSSR (for Timakov).  
(Medical research)

ZHUKOVSKIY, M.

"Influence of Radium Rays on the Excitability of the Brain," Vrach. gazeta  
No 2, p. 61, 1904.

66-1-2/26

AUTHORS: Zhukovskiy, M., Engineer and Ginburg, M., Engineer.

TITLE: Automation of the refrigeration equipment in the Leningrad cold store of Glavmyasorybtorg. (Avtomatizatsiya kholodil'noy ustanovki na Leningradskom kholodil'nike Glavmyasorybtorga).

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering), 1957, No.1, pp.5-10 (U.S.S.R.)

ABSTRACT: The cold store, of 3200 ton capacity, was built in 1913 and was intended for storing frozen fish. It has three storeys, 12 chambers (4 chambers per storey). The chambers are fitted mainly with cooling batteries at the ceiling. The ammonia piping with an upper distribution of the ammonia is sub-divided into two parts, one part for the southern side of the cold store, the other for the northern side; the separators of the liquid ammonia are located in the garret. The machinery is in a separate building and consists of two horizontal Borsig compressors of a refrigeration capacity of 150 000 and 350 000 N kcal/hr which are driven by 140 and 55 kW motors respectively. The following processes were automated: maintenance of a given temperature of the refrigerated chambers, feeding of the cooling agent into the liquid separators, feeding of the cooling agent from the liquid separators into the batteries of the individual chambers, protection of the refrigeration

Card 1/2

66-1-2/26

Automation of the refrigeration equipment in the Leningrad cold store of Glavmyasorybtorg. (Cont.)

equipment, monitoring of the temperature in the cold chambers. All these individual automation processes are described in some detail. Fig.1 shows a schematic diagram of the ammonia piping incorporating automatic control instruments; Fig.2 is a line drawing of the intermediate separator of liquid ammonia; Fig.3 shows a sketch of the heat exchanger; Fig.4 shows a separate diagram of the automatic protective devices.

There are four figures.

AVAILABLE:

Card 2/2

ZHUKOVSKIY, M.

Out-of-town session in Baku of the Academy of Medicine of the  
U.S.S.R. Azerb.med.zhur no.5:61-63 My '58 (MIRA 11:6)

1. Uchenyy sekretar' nauchno-planovoy komissii prezidiuma AMN SSSR.  
(MEDICINE)



ZHUKHOVSKIY, M.

Specialization is an important condition for increasing production.  
Prom.koop. no.4:8-9 Ap '56. (MLRA 9:8)

1 Predsedatel' pravleniya Belpromsoвета.  
(White Russia--Cooperative societies)

ZHUKOVSEIY, M.; frezerovshchik.

Workers take an active part in industrial administration. Sov.  
profsoiuzy 5 no.1:42-46 Ja '57. (MLRA 10:2)

1. Predsedatel' komiteta profsoyusa zavoda "Kompessor."  
(Founding) (Employees' representation in management)

GROMOV, K., DZHEIDPOV, B., ZHUKOVYSKIY, M., SILANT'YEV, A., KHOL'NOV, YU.

Antimony - Isotopes

R-Radiation of  $Sb^{124}$ . Dokl. AN SSSR 86 no. 2:255-258 S '52.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

May 51

USSR/Medicine - Neurology

"New Results in the Study of the Brain," M. A. Zhukovskiy

"Nauka i Zhizn'" Vol XVIII, No 5, pp 39, 40

Describes work of Prof B. N. Klovskiy, surgeon, who observed the brain of cats through a transparent plexiglas cover. Found by watching air bubble introduced under the cover that the brain pulsates only when the cover is not hermetically sealed, i.e., the brain is exposed to the air. There is no pulsation; blood circulation of the brain under normal conditions does not proceed by

190T60

May 51

USSR/Medicine - Neurology (Contd)

pulsating waves, as in other parts of the body. By using this new method he established that distribution of blood in the brain is uneven and continually varies.

190T60

PA 190T60

ZHUKOVSKIY, M. A.

ZHUKOVSKIY, M. A.

ZHUKOVSKIY, M. A. - "Change of Function of the Reticulo-Endothelium as an Indicator of the Reactivity of Patients with Scarlet Fever Under Various Systems of Hospitalization." Sub 16 Jan 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

USSR/Medicine - Drugs Jan 52

"The Root of Life [Ginseng]," M. A. Zhukovskiy

"Nauba i Zhizn'" Vol XIX, No 1, p 46

Small doses of ginseng have a stimulating effect on the nervous system, while large doses have a depressing effect. USSR scientists established that ginseng contains 5 physiologically active substances: panaxin, which has a stimulating effect on the middle brain and a tonic one on the cardiovascular system; panaxic acid, which stimulates metabolism and the cardiovascular system;

203788

USSR/Medicine - Drugs (Contd) Jan 52

panaquillon, a glucoside stimulating the endocrine system; panacen, an essential oil which exerts an action on the nerve centers of the large brain and the medulla; ginsenol, which has a beneficial effect in diabetes. Ginseng roots on cleaning are boiled in sugar syrup and then dried. A 10% soln in 70% alcohol is used in medicine: 20-30 drops are taken 30 min before meals. Contraindications are high blood pressure, arteriosclerosis, etc.

203788

ZHUKOVSKIY, M. A.

ZHUKOVSKIY, M. A.

USSR/Medicine - New Drugs

Mar 52

"Pantocrine," M.A. Zhukovskiy

"Nauka i Zhizn'" Vol XIX, No 3, p 48

The drug pantocrine is being extracted from the antlers of young deer according to a method developed by Prof S.M. Pavlenko. Pantocrine has a general tonic effect. It stimulates the cardiovascular system, the activity of the gastrointestinal tract and of the kidneys, increases the nitrogen and carbohydrate metabolism, and removes the feeling of fatigue. It is beneficial in neuroses

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due to overstrain, weakness of the nervous system, or general debility. The drug is taken orally or administered subcutaneously. The spotted "maral" deer from whose antlers pantocrine is extracted are being bred at special sovkhoses in the Far East and Southern Altay.

216730

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Planning medical research in pediatrics. *Pediatrila* no.3:57-58 Vy-Je '53.  
(MIRA 6:8)  
(Medical research) (Children--Diseases)



ZHUKOVSKIY, M.A.

~~Arthritis. Fel'dsher & akush. no.7:32-37 July 1953. (OLML 25:1)~~

1. Candidate Medical Sciences. 2. Moscow.

USSR/Medicine - Epidemic Hepatitis

Oct 53

"Epidemic Hepatitis," M.A. Zhukovskiy, Cand Med  
Sci (Moscow).

Fel 1 Akusher, No 10, pp 28-30

Since there are several diseases which are similar to epidemic hepatitis, but are different in origin, it is necessary to use extreme care in formulating the diagnosis. In cases of leptospiral jaundice the liver becomes greatly enlarged and painful; kidney trouble, a petechial rash on the skin, and sharp muscular pain are noted. Leptospiral

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jaundice is also accompanied by an accelerated erythrocyte sedimentation rate. Since rats are usually the source of leptospiral jaundice, the infection is commonly contracted by those people who come in contact with rodents. As in epidemic hepatitis, recovery from leptospiral jaundice depends greatly upon the condition of the morbid organism in general and of the nervous system in particular. No specific method of treatment resulting in the destruction of the epidemic hepatitis virus has yet been discovered.

26940

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk (Moscow).

New aspects of hypertension therapy. Fel'd. 1 akush. no.12:  
44-45 D '53.

(MLRA 6:12)

(Hypertension)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Bees and medicine. Nauka i zhizn' 20 no.4:12 Apr '55.

(MLRA 6:5)

(Honey--Therapeutic use)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Antisymphathin of professor Titaev. Nauka i zhizn' 20 no.7:37 JI '53.

(MIRA 6:7)

(Hypertension)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Fibrin film. Nauka i zhizn' 20 no.10:22 0 '53.

(MIRA 6:10)  
(Fibrin)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Biological types. Nauka i zhizn' 20 no.12:8-9 D '53.

(MLRA 6:12)

(Medical research)

ZHUKOVSKIY M.A.

MAYSKIY, I.N., professor, redaktor; LEPESHINSKAYA, O.B., redaktor;  
SEVERIN, S.Ye., redaktor; IMSHENETSKIY, A.A., redaktor; GLUSHCHEN-  
KO, I.Ye., professor, redaktor; KHRUSHCHEV, G.K., professor, re-  
daktor; STUDITSKIY, A.N., professor, redaktor; YCRONTSOVA, M.A.,  
professor, redaktor; VYAZOV, O.Ye., kandidat meditsinskikh nauk,  
redaktor; ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk, redaktor;  
OBYSOV, N.A., redaktor

[New data on the problem of the development of cellular and non-  
cellular forms of living] Novye dannye po probleme razvitiia  
kletochnykh i nekletochnykh form zhivogo veshchestva; trudy.  
Moskva, Gos. izd-vo med. lit-ry, 1954. 274 p. (MLRA 7:8)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Severin)
2. Chlen-korrespondent AN SSSR (for Imshenetskiy)  
(Cells)



ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk (Moscow).

Cardiac asthma. Fel'd. i skush. no. 1:17-19 Ja '54.  
(Asthma) (Heart--Diseases)

(MLRA 7:1)

ZHUKOVSKIY, M.A., nauchnyy sotrudnik instituta, kandidat meditsinskih nauk

Annual conference at the Institute of Pediatrics of the Academy  
of Medical Sciences of the U.S.S.R. Pediatriia no. 2:92-94 Mr-Apr '54.

(PEDIATRICS,  
\*in Russia, conf.)

(MIRA 7:6)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk (Moscow)

30th anniversary of the Kharkov Krupskaya Scientific Research  
Institute for the Protection of Mothers and Children. Pediatrics  
no.3:93-94 My-Je '54. (MLRA 8:1)  
(KHARKOV--MATERNAL AND INFANT WELFARE--SOCIETIES)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk.

Second Congress of the Pediatricians of the Ukrainian S.S.R.  
Pediatria, no.6:88-90 N-D '55.

(MIRA 9:6)

(UKRAINE--PEDIATRICS)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk

Achievements of medical science in public health practice (some work results of institutes of the Academy of Medical Sciences of the U.S.S.R. for the year 1954). Vest. AMN SSSR 11 no.2:56-60 '56.  
(MIRA 9:8)

1. Uchenyy sekretar' otdela planirovaniya i koordinatsii nauchnykh issledovaniy Prezidiuma AMN SSSR

(MEDICINE

Academy of Med. Sciences in Russia, achievements)

ZHUKOVSKIY, M.A.

Infectious diseases of children. Nauka i zhizn' 23 no.10:25-26 o '56.  
(MIRA 9:11)

(Children--Diseases) (Communicable diseases)

ZHUKOVSKIY, M.A., kandidat meditsinskikh nauk

Treatment of chronic tonsillitis in children with various antibiotics.  
Pediatria 39 no.2:38-43 Mr-Apr '56. (MIRA 9:8)

1. Iz revmatologicheskogo otdeleniya (zav. chlen-korrespondent AMN  
SSSR prof. O.D.Sokolova-Ponomareva) Instituta pediatrii AMN SSSR  
(dir. prof. O.D.Sokolova-Ponomareva)

(TONSILLITIS, in infant and child,  
ther., antibiotics (Rus))  
(ANTIBIOTICS, therapeutic use,  
tonsillitis in child. (Rus))

ZHUKOVSKIY, M.A. (Cand. of Med. Sci.)

"Aerosols of Antibiotics in the Treatment of Exacerbations of Chronic Tonsillitis in Children,"

p. 346 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957. p. 405, Moscow, Medgiz, 1957.



ZHUKOVSKIY, M.A.

~~Most important problems in pediatrics. Vest. AMN SSSR 12 no.1:82-86~~  
'57 (MIRA 10:5)

(PEDIATRICS)

*Zhukovskiy, M.A.*  
ZHUKOVSKIY, M.A., kand.med.nauk

Scientific achievements of research institutes of the Academy of  
Medical sciences of the U.S.S.R. made available for practical  
application in 1956. Vest. ANU SSSR 12 no.6:56-61 '57. (MIRA 11:2)

(RESEARCH

med., application of scientific findings in clin. practice)

SOV-25-58-7-3/56

AUTHOR: Zhukovskiy, M.A., Learned Secretary of the Scientific Planning Committee at the Presidium of the USSR Academy of Medical Sciences.

TITLE: The Standard of Living and Health (Obraz zhizni i zdorov'ye). Session in Minsk (Sessiya v Minske).

PERIODICAL: Nauka i zhizn', 1958, Nr 7, pp 7-8 (USSR)

ABSTRACT: The session summoned by the Presidium of the USSR Academy of Medical Sciences discussed the planned development of Soviet medical science over the next 7 years (from 1959 to 1965) and also three scientific topics of utmost importance - the standard of living and health, gerontology and liver diseases. The continuous prosperity increase, better conditions of work and life have lead to a considerable prolongation of average longevity and now the necessity has arisen to study the social, hygienic, biological and physiological factors influencing the health of older people. During the session the Member of the USSR Academy of Medical Sciences, N.N. Gorev and the scientific worker A.P. Cherkasskiy reported on the basic studies of the longevity problem in the USSR. S.P. Botkin informed the session on his results in investigating the aged. Professor Anna Aslan, Director of the Institute of Gerontology in Roumania also

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The Standard of Living and Health

307-25-58-7-3/56

spoke. The announcement of the presidium of the USSR Academy of Medical Sciences to establish in Kiyev an Institute of Gerontology was approved unanimously. There is 1 photograph.

1. Medical research---USSR

Card 2/2

ZHUKOVSKIY, M.A.

Sino-Soviet cooperation in medicine. Vest. AMN SSSR 13 no 4:62-63  
'58. (MIRA 11:4)

(MEDICINE  
Sino-Soviet cooperation (Rus))

ZHUKOVSKIY, M.A., kand.med.nauk

Proceedings of the out-of-town session of the Academy of Medicine  
of the U.S.S.R. in Baku. Vest.AMN SSSR 13 no.8:50-54 '58 (MIRA 11:8)  
(MEDICINE)

ZHUKOVSKIY, M.A., kand.med.nauk

Problems in regional pathology of the Central Asian republics.

Vest. AMN SSSR 15 no.12:58-62 '58.

(PUBLIC HEALTH  
in Russia)

(MIRA 12:1)

ZHUKOVSKIY, Mikhail Aleksandrovich; ZHDANOV, Viktor Mikhaylovich;  
MOLCHANOVA, Ol'ga Pavlovna; KOSILOV, Sergey Aleksandrovich,  
prof. fiziolog; KHOTSYANOV, Lev Kuprianovich; AMMORITSKAYA, A.I.

Health and the way of life. Nauka i zhizn' 25 no.7:7-12 J1 '58.  
(MIRA 11:9)

1. Uchenyy sekretar' Nauchno-planovoy komissii Prezidiuma  
AMN SSSR (for Zhukovskiy). 2. Otleny-korrespondenty AMN SSSR (for  
Zhdanov, Molchanova, Khotseyanov). 3. Direktor Instituta pitaniya  
AMN SSSR (for Molchanova).  
(MEDICINE--CONGRESSIS) (HYGIENE)



ZHUKOVSKIY, M.A., kand.med.nauk

Twelfth session of the General Assembly of the Academy of Medicine  
in Minsk. Pediatriia, 36 no.7:93-94 My-Je '58 (MIRA 11:7)  
(MEDICINE)

BAKULEV, Aleksandr Nikolayevich, akademik; ZHUKOVSKIY, M.A., red.;  
KUZ'MINA, N.S., tekhn.red.

[Basic results of research of the Academy of Medical Sciences  
of the U.S.S.R. for 1958] Osnovnye itogi nauchnykh issledo-  
vaniy Akademii meditsinskikh nauk SSSR za 1958 g. Moskva,  
Gos.izd-vo med.lit-ry, 1959. 74 p. (MIRA 13:7)

1. Prezident Akademii meditsinskikh nauk SSSR (for Bakulev).  
(MEDICAL RESEARCH)

GRIGOROVSKIY, I.M., prof.; ZHUKOVSKIY, M.A., kand.med,nauk

Some results of research carried out by the Academy of Medical Sciences  
of the U.S.S.R. Vest.AMH SSSR 14 no.4:74-82 '59. (MIRA 14:5)  
(MEDICAL RESEARCH)

ZHUKOVSKIY, M.A.

Some results of the investigations of the Academy of Medical  
Sciences of the U.S.S.R. in 1958. Vest. AMN SSSR 14 no.10:  
47-59 '59.

(MIRA 13:6)

(MEDICAL RESEARCH)

ZHUKOVSKIY, M.A. (Moskva)

Development of Soviet medicine from 1959 to 1965. Tel'd. 1  
akush. 24 no.5:3-7 My '59. (MIRA 12:8)  
(MEDICINE)

VASILENKO, V.M., prof.; ZHUKOVSKIY, M.A., kand.med.nauk

Prospects for the development of medicine in the U.S.S.R. in  
1959-1965. Klin.med. 37 no.1:3-12 Ja '59. (MIRA 12:3)

1. Deystvitel'nyy chlen AMN SSSR (for Vasilenko).

(MEDICINE

in Russia (Rus))

ZHUKOVSKIY, M.A., kand.med.nauk

Ballistocardiographic method of hemodynamic studies in rheumatic fever in children. *Pediatrics* 37 no.7:40-45 J1 '59.

(MIRA 12:10)

1. Iz kliniki starshego detskogo vozrasta Instituta pediatrii AMN SSSR (dir. i nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof.O.D.Sokolova-Ponomareva) i kafedry klinicheskoy i eksperimental'noy fiziologii (zav. - deystvitel'nyy chlen AMN SSSR prof.V.V.Parin) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(BALLISTOCARDIOGRAPHY, in var. dis.  
rheum. in child. (Rus))

(RHEUMATIC FEVER, physiol.  
ballistocardiography (Rus))

BAKULEV, A.N., otv. red.; DAVYDOVSKIY, I.P., red.; YECOROV, B.G., red.;  
ZHDANOV, D.A., red.; ZHUKOVSKIY, M.A., red.; LETAVET, A.A.,  
red.; OREKHOVICH, V.N., red.; PARIN, V.V., red.; SERGIYEV,  
P.G., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Abstracts of scientific papers of the Academy of Medical Sci-  
ences of the U.S.S.R. for 1956] Annotatsii nauchnykh rabot  
Akademii meditsinskikh nauk SSSR za 1956 god. Otv. red. A.N.  
Bakulev. Moskva, Medgiz. Books 2-3. 1959. (MIRA 17:2)

1. Akademiya meditsinskikh nauk SSSR.



ZHUKOVSKIY, Mikhail Aleksandrovich; POTAPOVA, I.N., red.; LYUDKOVSKAYA,  
N.I., tekhn. red.

[Prevention of rheumatic fever in children] Profilaktika revmatizma  
u detei. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1960. 17 p.  
(MIRA 14:7)

(RHEUMATIC FEVER)

TIMAKOV, V.D., otv. red.; ALEKSANYAN, A.B., prof., red.; ARUTYUNYAN, L.B.,  
prof., red.; DONBROVSKAYA, Yu.F., prof., red.; ZHUKOVSKIY, M.A.,  
starshiy nauchnyy sotr., red.; KHRIMIYAN, A.I., red.; GABERLAND,  
M.I., tekhn. red.

[Transactions of a session of the Academy of Medical Sciences in  
Erivan, October 12-14, 1959] Trudy nauchnoi sessii Akademii meditsin-  
skikh nauk SSSR v Erevane 12-14 oktiabria 1959 g. Redkollegiya: V.D.  
Timakov i dr. Moskva, Medgiz, 1960. 191 p. (MIRA 15:1)

1. Akademiya meditsinskikh nauk SSSR. Moscow. 2. Vitse-prezident  
Akademii meditsinskikh nauk (for Timakov). 3. Deystvitel'nyy chlen  
Akademii meditsinskikh nauk (for Aleksanyan, Donbrovskaya).  
(ARMENIA--PEDIATRICS)

ZHUKOVSKIY, M.A., kand.med.nauk

Out-of-town session in Erivan of the Soviet Academy of Medical  
Sciences. Vest.AMN SSSR 15 no.3:83-84 '60. (MIRA 14:5)  
(PEDIATRICS—CONGRESSES)

ZHUKOVSKIY, M.A., kand.med.nauk; NAUMOVA, L.P., kand.med.nauk

Achievements of research institutes of the Academy of Medical Sciences  
in 1959. Vest. AMN SSSR 15 no.8:62-74 '60. (MIRA 13:11)  
(MEDICAL RESEARCH)

TIMAKOV, V.D., otv. red.; AGAYEV, B.M., red.; ALIYEV, A.I., prof., (Baku),  
GUSEYNOV, D.Yu., red.; VASYUKOVA, Ye.A., prof., red.; ZHUKOVSKIY,  
M.A., starshiy nauchnyy sotr., red.; POSPELOVA, G.N., dotsent,  
red.; POD"YAPOL'SKAYA, prof. (Moskva), red.; PASHAYEV, T.G., prof.  
(Baku), red.; POGOSKINA, M.V., tekhn. red.

[Transactions of an out-of-town session of the Academy of Medical  
Sciences of the U.S.S.R. in Baku] Trudy Vyezdnoi sessii Akademii  
meditsinskikh nauk SSSR v Baku. Moskva, Gos. izd-vo med. lit-ry,  
Medgiz, 1961. 335 p. (MIRA 14:8)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Vitse-prezident  
AMN SSSR (for Timakov). 3. Minist. zdravookhraneniya Azerbayd-  
zhanskoy SSR (for Agayev). 4. Chlen-korrespondent AN Azerbaidzhan-  
skoy SSR (for Guseynov). 5. Chlen-korrespondent AMN SSSR (for Pod"ya-  
pol'skaya)

(GOITER) (WORMS, INTESTINAL AND PARASITIC)  
(HEALTH RESORTS, WATERING PLACES, ETC.)  
(PETROLEUM WORKERS—DISEASES AND HYGIENE)

VASILENKO, V. Kh.; ZHUKOVSKIY, M. A. (Moskva)

Problems of clinical medicine at the 15th Session of the General  
Assembly of the Academy of Medical Sciences of the U.S.S.R. Klin.  
med. no.9:5-11 '61, (MIRA 15:6)

(MEDICINE, CLINICAL)

VASILENKO, V.Kh., prof.; ZHUKOVSKIY, M.A.

Problem of the protective functions of the body; the 16th session  
of the general meeting of the Academy of Medical Sciences of the  
U.S.S.R. Klin.med. 40 no.5:3-10 '62. (MIRA 15:8)  
(IMMUNITY--CONGRESSES)

BERKOVICH, I.M., doktor med. nauk [deceased]; VOLOTOV, A.N., dots.; VALENTINOVICH, A.A., dots.; DOMBROVSKAYA, Yu.F., prof.; KOSSYURA, M.B., kand. med. nauk; KIFER, Ye.L., kand. med. nauk; MASLOV, M.S., prof. [deceased]; POD"YAPOL'SKAYA, V.N., prof.; SEMENOVA, N.Ye., zasl. vrach RSFSR; KHOKHOL, Ye.N., prof.; ZHUKOVSKIY, M.A., red.; KOROLEV, A.V., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.4. [Diseases of the digestive tract. Diseases of the liver and skin. Vitamins and vitamin deficiency diseases] Zabolevaniia pishchevaritel'nogo trakta. Bolezni pochk i kozhi. Vitaminy i bolezni vitaminnoi nedostatochnosti. Red. toma E.N.Khokhol. 1963. 721 p. (MIRA 17:2)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya, Maslov).
2. Chlen-korrespondent AMN SSSR (for Pod'yapol'skaya, Khokhol).



AGABABOVA-SKOBEL'VA, V.V., kand. med. nauk; DOBROKHOTOVA, A.I., prof. [deceased]; ZHUKOVSKIY, M.A., kand. med. nauk; LEEDEV, D.D., zasl. deyatel' nauki prof.; MARTINSON, Kh.S., kand. med. nauk; MOLCHANOV, V.I., prof.; NOSOV, S.D., prof.; SOBOLEVA, V.D., doktor med. nauk; SOLOV'YEV, V.D., prof.; SUKHAREVA, M.Ye., prof.; SHAPIRO, S.L., kand. med. nauk; SHERMAN, R.Z., doktor med. nauk; SHIRVINDT, B.G., prof.; DOMBROVSKAYA, Yu.F., otv. red.; POTAPOVA, I.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.5.[Infectious diseases in children; aerial and droplet infections] Infektsionnye bolezni v detskom vozraste; vozdushno-kapel'nye infektsii. Red. toma S.D.Nosov. 1963. 547 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Skobeleva, Solov'yev). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Dombrovskaya).  
(PEDIATRICS) (COMMUNICABLE DISEASES)

ABEZGAUZ, A.M., prof.; BUBNOVA, M.M., prof.; GUREVICH, Ye.S., prof.;  
ZHUKOVSKIY, M.A., st. nauchn. sotr.; KARYSHEVA, K.A., kand.  
med. nauk [deceased]; MAZURIN, A.V., dots.; NOSOV, S.D.,  
prof.; NISEVICH, N.I., prof.; RAYTS, M.M., prof.;  
SOKOLOVA-PONOMAREVA, O.D.; STUDENIKIN, M.Ya., dots.;  
TOKAREVICH, K.N., prof.; SHIRVINDT, B.G., prof.; DOMBROVSKAYA,  
Yu.F., otv. red.; OSTROVERKHOV, G.Ye., prof., glav. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po  
pediatrii. Moskva, Meditsina. Vol.6. [Infectious diseases in  
children] Infektsionnye bolezni v detskom vozraste. 1964. 680 p.  
(MIRA 17:7)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya,  
Sokolova-Ponomareva)

ZHUKOVSKIY, Mikhail Aleksandrovich, doktor med. nauk; YUKINOVSKAYA,  
S.I., red.

[Endocrine diseases in children] Endokrinnye zabolevaniia u  
detei. Moskva, Meditsina, 1965. 57 p. (MIRA 18:2)

LAGUNOVA, I.G., prof.; ROZENSHTRAUKH, L.S., prof.; SANTOTSKIY, M.I., prof.;  
ZHUKOVSKIY, M.A., prof.; NIKOLAYEV, O.V., prof.

In memory of Boris Mendeleevich Ioffe, 1899-1966. Vest. rent. i  
rad. 40 no.3:69 My-Je '65. (MIRA 18:7)

1. Vsesoyuznoye obshchestvo rentgenologov i radiologov, Vserossiyskoye obshchestvo rentgenologov i radiologov i Gosudarstvennyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut (for Lagunova). 2, Moskovskoye obshchestvo rentgenologov i radiologov (for Rozenshtraukh). 3. Vsesoyuznyy institut eksperimental'noy endokrinologii (for Santotskiy, Zhukovskiy, Nikolayev).

08  
 ZHUKOVSKIY, M. A.  
 Apparatus for cooking and drying rubber strips. D. B. GURVICH and M. A. ZHUKOVA.  
 Russ. 20,704, June 22, 1950. Mechanical details.

121

Scientific determination of the caking of coals in the Kattwinkel apparatus. M. L. Zhukovskii, *Izvestiya Teplo-Tekhn. Inst.* 1934, No. 6, 34-8. The following points must be kept in mind when working with the above app.: (1) the degree of pulverization of the coal, (2) quality and grain of the sand, (3) method of heating, (4) material and size of the crucible and (5) construction of the press. A number of expts. are reported. A. A. Bochtinskii.

CLASSIFICATION		PROPERTY AND PROPERTIES INDEX	
<p><i>CA</i></p> <p>Determination of the heating value by a simplified calorimeter. A. P. SEMENOV AND M. D. ZHUKOVSKI. <i>Izvestiya Tsekhmash. Inst. (Trans. Thermo-Tech. Inst.)</i> 1931, No. 1, 34-42. The heating values of various coals and wood were detd. in different calorimeters. The Parr calorimeter is recommended provided that the Na<sub>2</sub>O catalysts not less than 92% of active O<sub>2</sub> and the proper amts. of Na<sub>2</sub>O and tartaric acid are used, without the addn. of K<sub>2</sub>SO<sub>4</sub>. Corrections for radiation must be made, and max. deviations of 1.16% were observed in various detns. A. A. BOMBIKOV</p>		<p>21</p>	
<p>ASAC-514 METALLURGICAL LITERATURE CLASSIFICATION</p>			

CLADO

**Determination of Purely Circulatory Flows Around Profiles**  
(original text in Russian), M. E. Zhukovskiy; App. Math. & Mech. (USSR) July-Aug '49 (12-4 SI-Mithyl); pp 457-458; 2 illus, 10 fig.

Investigation of a plane potential flow around an isolated profile is presented by a total of three types of flow: (1) non-circulatory, having an infinite direction, parallel to the axis x; (2) noncirculatory, having an infinite direction along the axis y; and (3) a purely circulatory flow. The term expressing the speed of the resulting flow on the surface of the profile can be formulated by:

$$v(s) = V_{\infty} \left[ u_x(s) \cos \alpha + u_y(s) \sin \alpha \right] + \frac{\Gamma}{b} u_r(s)$$

where  $V_{\infty}$  = the speed in the infinity,  $\alpha$  = the angle of attack,  $b$  = the profile chord,  $\Gamma$  = the rate of speed over the contour of the profile,  $u_x(s)$  and  $u_y(s)$  = velocities on the surface of the

profile which corresponds at  $V_{\infty} = 1$ ,  $\alpha = 0$ ,  $\Gamma = 0$ , and at  $V_{\infty} = 1$ ,  $\alpha = \pi/2$ ,  $\Gamma = 0$ , and finally  $u_r$  = non-dimensional speed of the purely circulatory flow also expressed at times in the value  $\Gamma/b$ . Other mathematical formulas developed by Zhukovskiy are included. The general methods for the calculation of speed at a circulation different from zero are confined in the realization of conformal reflection, provided in the noncirculatory flow, which is connected with considerable calculations. The obtained results enable particularly the finding of the circulatory flow around profiles through the utilization of the experimental value of the noncirculatory potential of speed determined by the method of the electrohydrodynamic analogy.

ASH-12A METALLURGICAL LITERATURE CLASSIFICATION



GOL'DFEL'D, A.Ya., doktor med. nauk; GINZBURG, Ye.Ya.; DULITSKIY, S.O., prof. [deceased]; IGNIATOV, S.I., prof.; KRAVETS, E.M., doktor med. nauk; LEPSKIY, Ye.M., prof. [deceased]; NEBYTOVA-LUK'YANCHIKOVA, M.N., prof.; SPERANSKIY, G.N.; TUR, A.F.; DOMBROVSKAYA, Yu.F., otv. red.; BUENOVA, M.M., prof.; red.; VLASOV, V.A., prof., red.; GRECHISHNIKOVA, L.V., red.; LEBEDEV, D.D., prof., red.; MASLOV, M.S., red. [deceased]; NOGINA, O.P., kand. med.nauk, red.; NOSOV, S.D., prof., red.; SOKOLOVA-PONOMAREVA, O.D., red.; TERNOVSKIY, S.D., red. [deceased]; KHOKHOL, Ye.N., red.; ~~ZHUKOVSKIY, M.A., starsbiy~~ nauchnyy sotr., red.; MAZURIN, A.V., kand. med. nauk, red.; ZAKHAROVA, A.I., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.2. 1961. 566 p.

(MIRA 15:8)

1. Chlen-korrespondent Akademii nauk SSSR deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Speranskiy). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Tur, Dombrovskaya, Maslov, Sokolova-Ponomareva). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Ternovskiy, Khokhol).  
(PEDIATRICS)

DOMBROVSKAYA, Yu.F., prof.; ZHUKOVSKIY, M.A., starshiy nauchn.sotr.;  
KUTUSHEV, F.Kh., doktor med.nauk; LEBEDEV, D.D., prof.;  
MASLOV, M.S., prof.[deceased]; MISHURA, V.I., kand.med. nauk;  
OSINOVSKIY, N.I., prof.; SHAMSIYEV, S.Sh., prof.; ROGOV, A.A.,  
red.; CHUYEVA, L.F., red.; BUL'DYAYEV, N.A., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po  
pediatrii. Moskva, Medgiz. Vol.3. 1962. 586 p. (MIRA 15:9)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Dombrovskaya, Maslov).

(PEDIATRICS)

ZHUKOVSKIY, M.I., kandidat tekhnicheskikh nauk.

Efficient method for the calculation of vortexless streamlines around  
a given-shape plane lattice profile. [Trudy] TSKTI 12:57-81 '49.  
(Turbomachines--Aerodynamics) (MLRA 8:4)

ZHUKOVSKIY, M. I.

PA 61/49193

USSR/Physics  
Fluid Mechanics  
Aerodynamics

Jul/Aug 49

"Determination of a Pure Circulation Flow Around  
an Array of Profiles," M. I. Zhukovskiy, Cen  
Boiler-Turbine Inst, Leningrad, 2 pp

"Priklad Matemat i Mekh" Vol XIII, No 4

Mathematical proof showing that the potential  
of a pure circulation flow at a certain point of  
a single streamlined profile or a profile in an  
array is equal to that angle of attack (in radians)  
of the noncirculation flow which determines the con-  
vergence of flow at this point. Submitted 10 May 49

61/49193

ZHUKOVSKIY, M. I.

"Calculation of Nonvortical Flow Around a Profile Grid Under Variation of Blade Spacing and Blade Angle" Teploper. i Aerodin. 18 (1950)

ZHUKOVSKIY, M. I.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (8-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"Theoretical Methods of Improving Cascades of Turbine Machine Profiles" by Zhukovskiy, M. I. (Central Boiler-Turbine Institute, Leningrad)

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No. 6, Moscow,  
June 1953, (W-30662, 12 July 1954)

ZHUKOVSKIY, M.I.

ABRAMOVICH, S.F. (Leningrad); ZHUKOVSKIY, M.I. (Leningrad)

Graphic method for the calculation of flow around turbomachine profiles.  
(MLRA 8:7)

Inzh. sbor. 20:13-20 '54.

(Blades) (Turbomachines)

ZHUKOVSKIY, M.I., kandidat tekhnicheskikh nauk

Calculation of flow around an arbitrary cascade of profiles and the construction of cascades according to a given distribution of velocities. [Trudy TSETI no. 27:3-19 '54. (MIRA 8:12)  
(Gas flow)



GUSAKOVA, Ye.A., starshiy inzhener; ZHUKOVSKIY, M.I., kandidat tekhnicheskikh nauk; KIRSANOV, V.A., kandidat tekhnicheskikh nauk; SKHAR', N.A., kandidat tekhnicheskikh nauk

Methods for improving turbine blade cascades. [Trudy] TSNTI no.27:  
59-80 '54. (MLRA 8:12)

(Gas flow) (Gas turbines)

ZHUKOVSKIY, M.I.

AID P - 1241

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 2/17

Authors : Zhukovskiy, M. I. and Sknar', N. A., Kand. of Tech. Sci.

Title : ~~Experimental characteristics of these bladings~~  
New turbine blading sets

Periodical : Teploenergetika, 1, 7-11, Ja 1955

Abstract : This article outlines the results obtained by use of aerodynamic methods in the design of high efficiency bladings. Experimental characteristics of these bladings are given. The possibilities are shown of unification of blades used in steam turbines by applying the newly-developed bladings. Tables, diagrams.

Institution : Central Boiler and Turbine Institute

Submitted : No date

ZHUKOVSKIY, M. I.

"On Determining Angle of Flow Outlet From a Profile Lattice,"  
by M. I. Zhukovskiy, Inform. pis'mo Tsentr. n.-i. kotloturb.  
in-ta, No 143, 1955, 10 pp (from Referativnyy Zhurnal--Mekh-  
anika, No 11, Nov 56, Abstract No 7429, by G. Yu. Stepanov)

"The author examines a method of assigning a point of convergence and determining the angle of outlet  $B_2$  in a plane potential flow of an incompressible fluid through a profile lattice having circular outlet edges. He presents several examples of turbine lattices having good conformity between the computed and experimental values of  $B_2$ .

"The practically applied, simpler, semiempiric means of computing values of  $\beta_2$  are not mentioned. The author explains the possible difference between computed and experimental values of  $\beta_2$  as resulting from inaccurate numerical conformal transformations; in fact, this difference is basically explained by the fact that in the flow model which is used, flow separation at the outlet edges and the effect of gas viscosity and compressibility are not considered."

Sum 1258

ZHUKOVSKIY, M.I., kandidat tekhnicheskikh nauk.

Designing profile cascades with prescribed velocity distribution  
in subsonic flow. Energomashinostroenie no.5:14-18 My '56.  
(Turbines--Aerodynamics) (MIRA 9:9)

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AUTHOR: Zhukovskiy, M.I. and Skmar, N.A., Candidates of Technical Sciences.

TITLE: On the use of guide vanes with increased thickness of the edges (K voprosy o primeneni utolshchennykh kromok napravlyayushchikh lopatok.)

PERIODICAL: "Energomashinostroenie", (Power Machinery Construction), 1957, No. 2, pp. 11 - 13, (U.S.S.R.)

ABSTRACT: The edge losses calculated according to formulae of various authors give differing results. Also, in evaluating the influence of the thickness of the outlet edges on the operation of guide vanes, the outflow angle of the stream is frequently neglected: equally, the advantages and disadvantages of various methods of designing these angles are disregarded. Developments in gas turbine and steam turbine construction bring about the necessity of using blades with relatively thick outlet edges. The authors show the advisability of designing the outlet edges of guide vanes by methods which lead to smaller outlet angles. The methods described here were investigated by the authors in the Central Boiler-turbine Research Institute (TSKTI) in 1955. The method is considered which, for a certain range of changes of the relative pitch  $t$  and of the setting angle of the blades permits the use of edges of various thicknesses with equal losses of power. Thickening the outlet edge

ACCESSION NR: AP4045907

S/0114/64/000/009/0015/0018

AUTHOR: Zhukovskiy, M. I. (Doctor of technical sciences); Tarabrin, A. P.  
(Engineer)

TITLE: Calculation of axisymmetric flow in an axial-flow turbomachine stage

SOURCE: Energomashinostroyeniye, no. 9, 1964, 15-18

TOPIC TAGS: turbomachine, turbocompressor, axial flow turbocompressor,  
axisymmetric flow

ABSTRACT: Methods of axisymmetric-flow calculation are set forth, and the results of a calculation of the flow in a long-blade compressor stage are compared with experimental data. The aerodynamic equations are solved by a difference method that differs from other well-known methods by the following peculiarities: (1) The basic set of equations is solved, not transformed and reduced to one equation; (2) The central differences are used; (3) Sliding

Card 1/2

ACCESSION NR: AP4045907

successive approximations are used in solving nonlinear equations by the method of straight lines; (4) It is assumed that the energy loss varies linearly over the z-axis sections; (5) A solution of the constant-flow equation is presented as approximate finite formulas. The axisymmetric flow was calculated for a stage of an experimental axial-flow compressor having  $D_{av}/l = 3$ , a theoretical pressure of 0, 4, and a reaction step at an average radius of 0.5. The estimated results were found to be in fairly good agreement with experimental data for the middle part of the blade. "The flow was calculated by Engineers S. Sh. Avvakumova and G. G. Soboleva. The stage was developed by Candidate of Technical Sciences M. M. Babkova." Orig. art. has: 5 figures and 29 formulas.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. I. I. Polzunova  
(Central Boiler-and-Turbine Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: PR

NO REF SOV: 003

OTHER: 000

Card 2/2

L 5389-66 EWT(1)/EWP(m)/EMA(d)/FCS(k)/EJA(1)  
ACC NR: AP5027269 SOURCE CODE: UR/0207/65/000/005/0040/0044

AUTHORS: Vysotskaya, I. V. (Leningrad); Genkin, A. L. (Leningrad); Zhukovskiy, M. I. (Leningrad)

ORG: none

TITLE: Two-dimensional flow of ideal conducting gas in crossed electric and magnetic fields

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1965, 40-44

TOPIC TAGS: MHD, electric field, magnetic field, electric conductivity, Reynolds number, approximation method

ABSTRACT: The flow of a two-dimensional, ideal, variable conductivity gas is analyzed, using an approximation technique. The coordinate system for the problem is shown in Fig. 1. All Hall effects are neglected, the applied fields are assumed to be constant, and the electric conductivity is a function of pressure and temperature. The governing hydromagnetic equations are expanded in powers

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ACC NR: AP5027269



Fig. 1

of the magnetic Reynolds number  $R_m$  and the interaction parameter  $S$

$$\left( S = \frac{c_0 l B_0^2}{\rho \mu_0} \right)$$

in the following manner

$$z = z_0 + Sz_1 + R_m z_2 + S^2 z_3 + SR_m z_4 + R_m^2 z_5 + \dots$$

where  $z$  represents the various flow parameters. The resulting set of equations is given up to second order in  $z$ , and expressions are derived for  $u_1$ ,  $p_1$ ,  $B_{x2}$  and  $B_{y2}$ . It is shown that the  $SR_m$  expansion can be regrouped as follows

$$z = z_0 + S(z_1 + R_m z_2 + R_m^2 z_3 + \dots) + S^2(z_4 + R_m z_5 + R_m^2 z_6 + \dots) + \dots$$

( $z = u, v, p, p$ )

for  $z = u, v, \rho, p$  and

$$z = z_0 + R_m(z_1 + Sz_2 + S^2 z_3 + \dots) + R_m^2(z_4 + Sz_5 + S^2 z_6 + \dots) + \dots$$

( $z = B_x, B_y$ )

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for  $s = B_x$  and  $B_y$ . An analogous solution can be obtained in the  $xz$ -plane. Orig.  
art. has: 30 equations.

SUB CODE: ME, EM

SUBM DATE: 21Sep64/

ORIG REF: 003/

OTH REF: 004

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L 21937-66 EWP(f)/I-2/ETC(m)-6 WY

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SOURCE CODE: UR/0114/65/000/009/0003/0006

AUTHOR: Zhukovskiy, M. I. (Doctor of technical sciences); Gukasova, Ye. A. (Engineer);  
Droz, Ye. Ye. (Engineer)

ORG: none

TITLE: Development and experimental investigation of the cascade design of the root section of last-stage stator blading of high-capacity steam turbines

SOURCE: Energomashinostroyeniye, no. 9, 1965, 3-6

TOPIC TAGS: turbine stator, steam turbine, aerodynamic effect, viscosity  
ABSTRACT: The article presents the results of an experimental investigation of the aerodynamic profiling of transonic stationary blading with low energy losses over a wide range of flow regimes. Six different cascade designs are compared, and it is found that the optimal cascade design is C1 (energy losses  $\sim 0.04$ ), where allowance is made for the effect of viscosity and the special features of the flow around trailing edges and the profile of the subsonic part of the channel is more carefully designed. The profiling of the peripheral rims of the outlet section of the channels of the transonic cascades of the stator blading was based on specially designed Laval nozzles of minimum length, with the flow line being taken at a distance of  $0.35 A^*$  (where  $A^*$  is the critical cross section) from the nozzle axis.

Orig. art. has: 5 figures and 1 table. /JPRS/

SUB CODE: 10, 20 / SUBM DATE: none / ORIG REF: 006

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S/096/63/000/005/001/011  
E191/E481

**AUTHORS:** Zhukovskiy, M.I., Doctor of Technical Sciences,  
Durakov, N.I., Engineer, Novikova, O.F., Engineer

**TITLE:** Analysis by electronic computer of the potential flow  
of an incompressible fluid around arbitrary cascades  
of blade profiles

**PERIODICAL:** Teploenergetika, no.5, 1963, 26-30

**TEXT:** Methods practised at present in the analysis of potential  
flow around arbitrary cascades of profiles are based either on  
conformal mapping or on the solution of integral equations. The  
latter are more suitable for computer programming. The method  
used at the Central Boiler and Turbine Institute is based on an  
integral equation formulated by M.I.Zhukovskiy, wherein the  
unknown function is the velocity potential. The equation  
constitutes a Fredholm integral equation of the second kind with a  
continuous core. The continuous core is responsible for a  
uniform accuracy at all points of the profile. Only the  
coordinates of the profile and not their derivatives are used.  
The solution of the equation is unique. A method of successive  
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